

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P368601

Luminaire Tested: **MSA-SA4D-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA4D-730-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25806 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

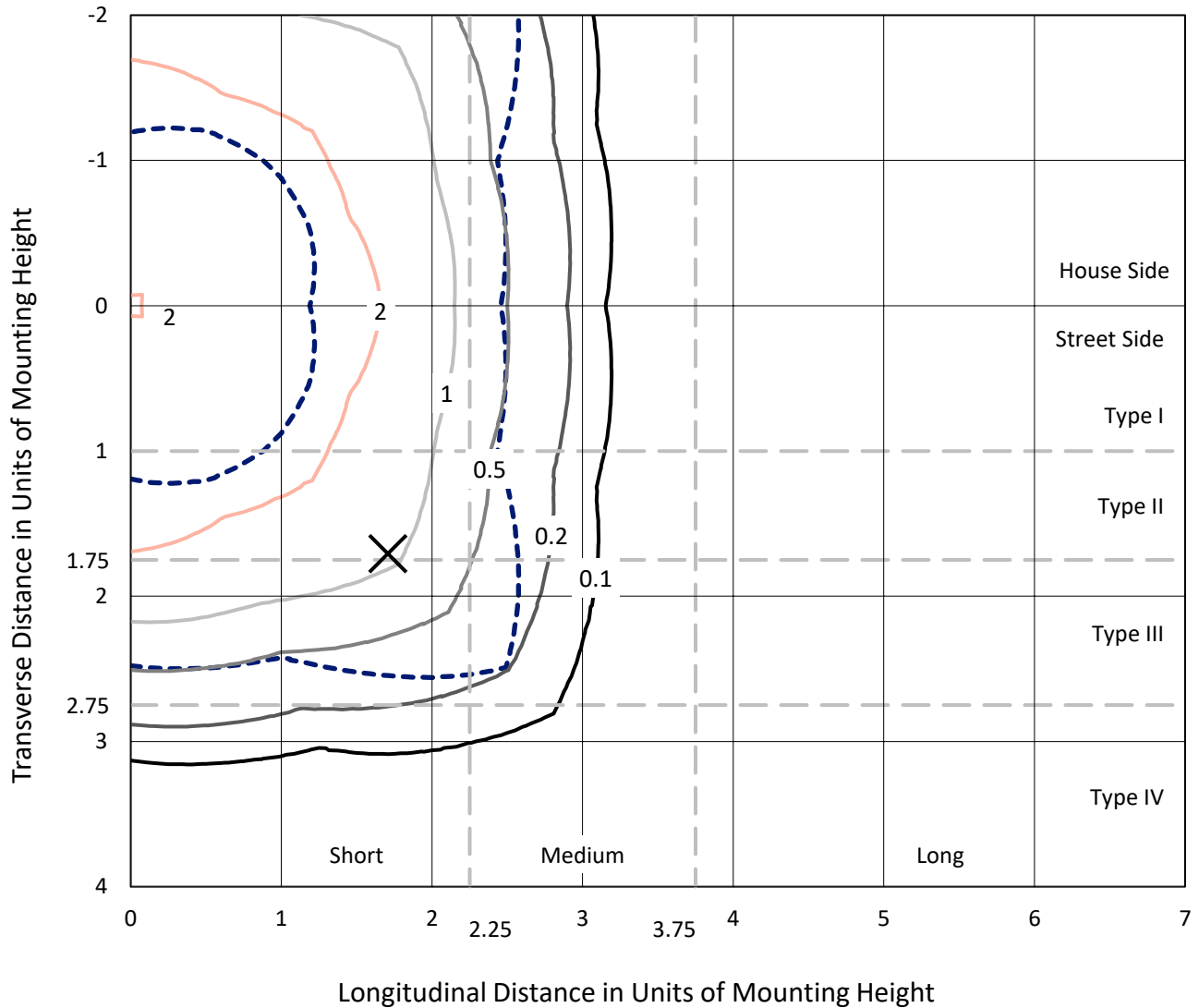
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

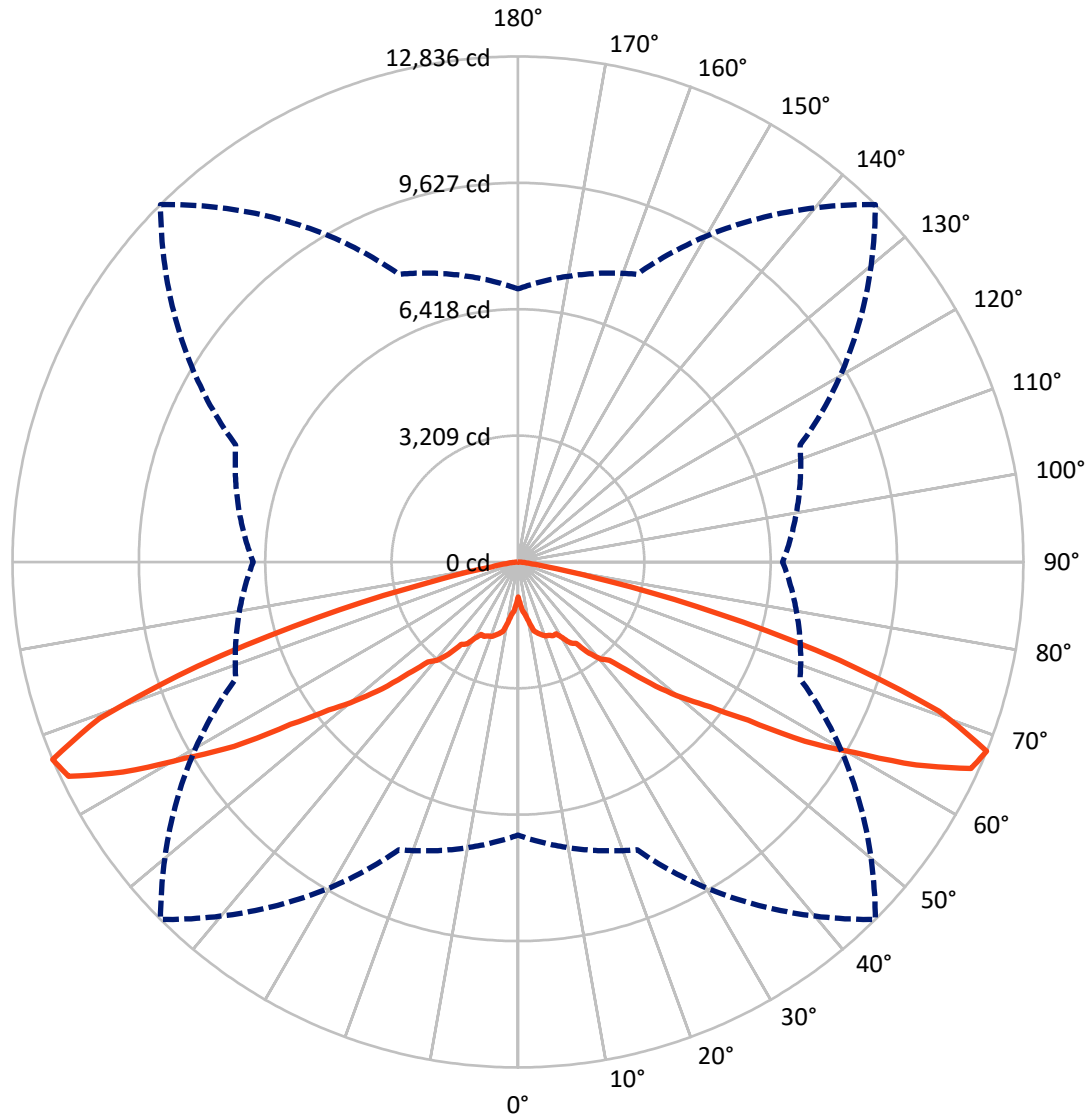
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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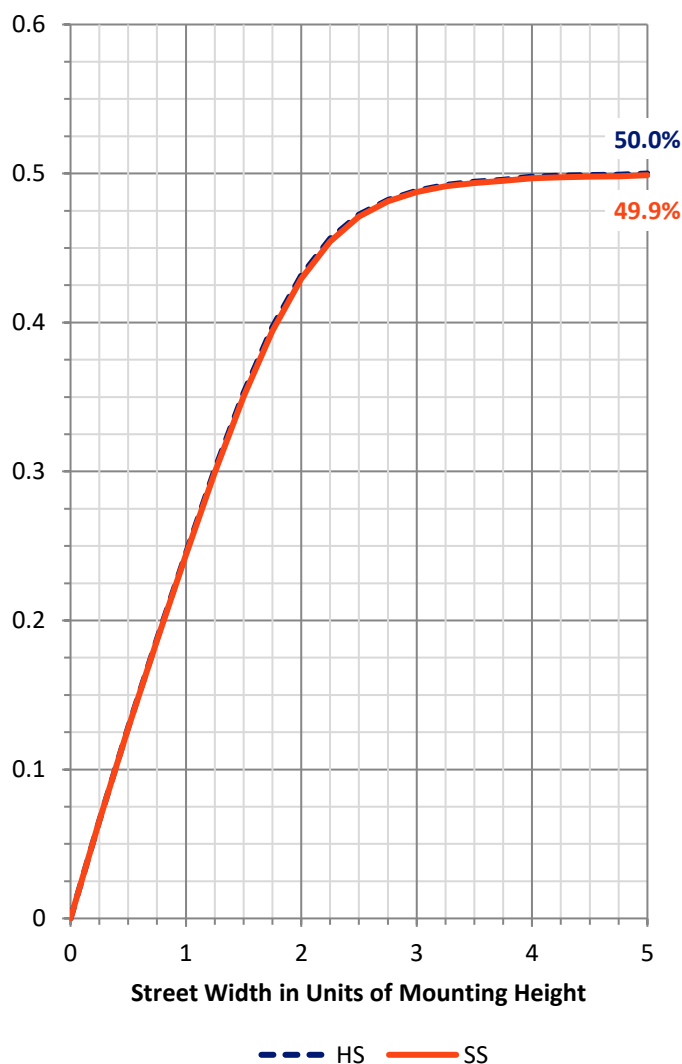
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12903.0	0.0	12903.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12903.0	0.0	12903.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25806.0	0.0	25806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.9	0.5
10°-20°	521.4	2.0
20°-30°	994.8	3.9
30°-40°	1818.9	7.0
40°-50°	3526.7	13.7
50°-60°	6734.8	26.1
60°-70°	9099.3	35.3
70°-80°	2826.0	11.0
80°-90°	152.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25806.0	100.0
0°-180°	25806.0	100.0

**Coefficient of Utilization**

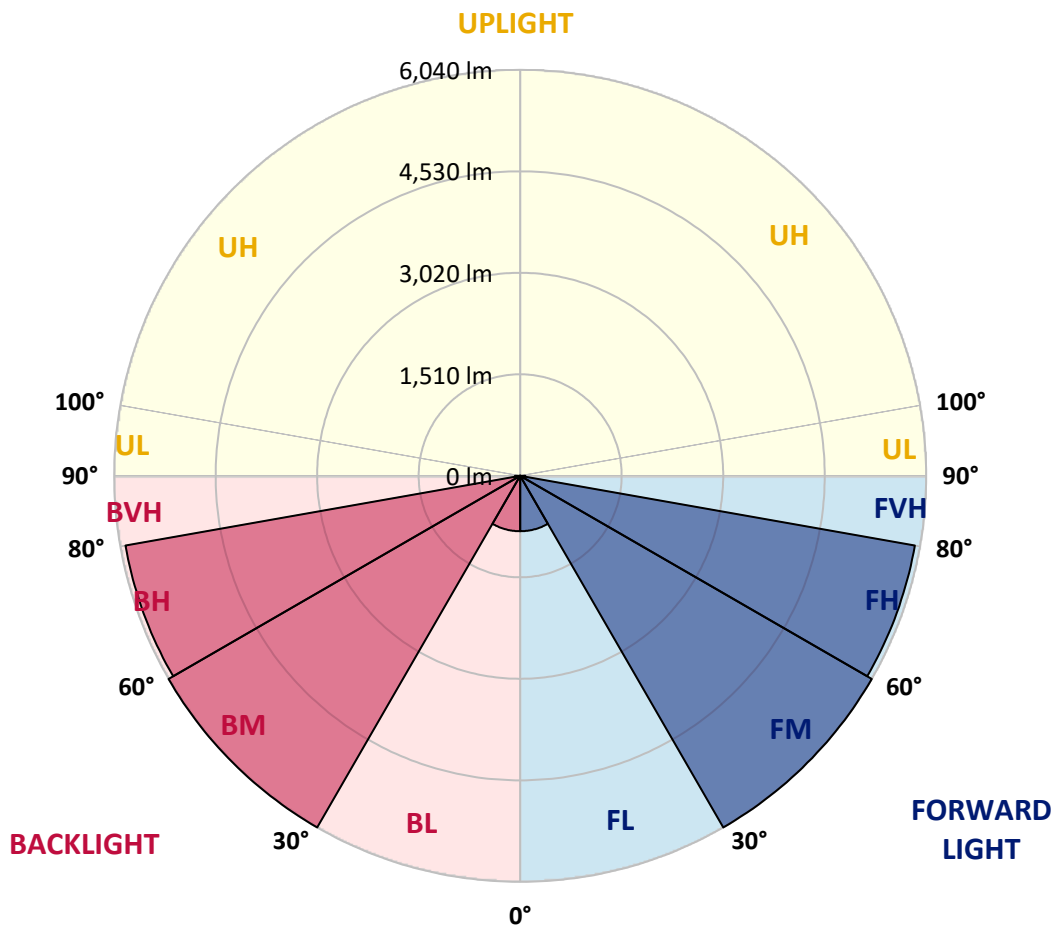


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.1	3.2			
FM (30°-60°)	6040.1	23.4			
FH (60°-80°)	5962.7	23.1			G3/7500
FVH (80°-90°)	76.1	0.3			G1/100
BL (0°-30°)	824.1	3.2	B2/1000		
BM (30°-60°)	6040.1	23.4	B4/8500		
BH (60°-80°)	5962.7	23.1	B5		G3/7500
BVH (80°-90°)	76.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884.3	884.3	884.3	884.3	884.3
2.5°	1088.7	1018.9	1050.8	1018.9	1088.7
5°	1383.8	1311.0	1247.2	1293.1	1387.8
7.5°	1590.2	1481.5	1346.9	1469.5	1581.2
10°	1625.1	1564.2	1558.3	1557.3	1621.1
12.5°	1755.7	1714.8	1796.5	1718.8	1759.6
15°	1857.3	1834.4	1871.3	1863.3	1861.3
17.5°	2014.9	1859.3	1943.1	1850.4	2009.9
20°	2084.7	1864.3	2004.9	1853.4	2083.7
22.5°	2170.4	1982.0	2023.8	1987.0	2162.4
25°	2219.2	2057.7	2072.7	2059.7	2220.2
27.5°	2419.6	2225.2	2065.7	2252.1	2456.5
30°	2572.2	2333.9	2229.2	2336.9	2591.1
32.5°	2792.5	2496.4	2455.5	2536.3	2827.4
35°	3065.7	2769.6	2540.3	2770.6	3123.5
37.5°	3601.0	3017.8	2937.1	3105.5	3640.9
40°	3978.9	3409.6	3237.1	3472.4	4043.7
42.5°	4559.1	3849.3	3411.6	3881.2	4658.8
45°	5099.5	4382.7	3967.9	4419.5	5172.3
47.5°	5670.7	4872.2	4716.6	4918.0	5724.6
50°	6345.7	5535.1	5426.5	5587.0	6368.6
52.5°	7142.3	6422.4	6101.4	6452.4	7150.2
55°	8088.4	7167.2	7095.4	7248.9	8100.3
57.5°	9013.6	8132.2	8592.8	8141.2	8853.0
60°	9673.6	9021.5	9824.1	8792.2	9317.6
62.5°	9715.4	9680.5	11357.4	9291.7	9217.9
65°	8810.2	9414.3	12641.5	9110.3	8367.5
67.5°	6934.9	7908.9	12835.9	7755.4	6722.5
70°	4357.7	5476.3	11347.5	5686.7	4481.4
72.5°	2009.9	2951.0	8545.0	3321.9	2124.5
75°	719.8	1129.6	5272.0	1213.3	752.7
77.5°	408.8	457.6	2329.9	459.6	422.7
80°	263.2	285.1	673.0	301.1	256.2
82.5°	149.5	199.4	295.1	211.4	137.6
85°	80.8	126.6	130.6	129.6	80.8
87.5°	28.9	49.8	28.9	56.8	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)